

## BIBLIOGRAPHY.

## RECENT PAPERS BEARING ON METEOROLOGY AND SEISMOLOGY.

C. F. TALMAN, Professor in Charge of Library.

The following titles have been selected from the contents of the periodicals and serials recently received in the Library of the Weather Bureau. The titles selected are of papers and other communications bearing on meteorology and cognate branches of science. This is not a complete index of all the journals from which it has been compiled. It shows only the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau.

*Aeronautics. London.* v. 17. January 22, 1920."Meteor." Weather and aviation. p. 91-93. [Conclusion.]  
[Elementary meteorology for the aviator.]*Astrophysical journal. Chicago.* v. 50. December, 1919.

Van Rhijn, P. J. On the brightness of the sky at night and the total amount of starlight. p. 356-375.

*Aviation. New York.* v. 8. February 1, 1920.

Joyce, Temple N. Effects of wind upon the stability and maneuverability of an airplane in flight. p. 18-19. [Detailed discussion of banking with and into the wind.]

*Engineering news-record. New York.* v. 84. 1920.Rotary snowplows clear streets in Canadian cities. p. 221-222.  
(Jan. 29.) [Describes snowplows.]

A new conception of the snow removal problem needed. p. 355-356. (Feb. 19.) [Engineer's problem. Greater preparation urged.]

Davidson, L. Street snow removal problems. p. 391. (Feb. 19.

*London, Edinburgh, and Dublin philosophical magazine. London.* v. 39. January, 1920.

Jones, Loyd A. A method and instrument for the measurement of the visibility of objects. p. 96-134. [Designed to aid in combating submarines: a theoretical study of visibility problems.]

*Nature. London.* v. 104. 1920.

Gold, E. Meteorology in three dimensions. p. 505. (Jan. 15.) [Review of paper by W. H. Dines.]

B., W. W. Australian rainfall and wheat yield. p. 606-607.  
(Feb. 5.) [Review of "Results of observations in S. Australia."]*Physico-mathematical society of Japan. Proceedings. Tokyo.* v. 1. November-December, 1919.

Terada, Torahiko, &amp; Masuzawa, Sadazumi. Barometric gradient and earthquake frequency. p. 343-347.

*Popular astronomy. Northfield.* v. 27. October, 1919.

Comstock, George C. Atmospheric refraction near the horizon. p. 529-530. [Not so great as to warrant extreme caution in determining ship's position at sea.]

*Science. New York.* v. 51. February 6, 1920.

McAdie, Alexander. Gravity and aerostatic pressure on fast ships and airplanes. p. 144-145. [Pressure observations at sea should be corrected for direction of ship, angle of inclination of ship to wind direction, speed of ship, and speed of wind.]

*Scientific American monthly. New York.* v. 1. 1920.

Wade, Herbert T. A wireless storm detector for the central station. Anticipating thunderstorms and atmospheric darkness at the power plant. p. 18-21. [Abstract in later issue of Review.]

Automatic regulation of humidity in factories. p. 24-27. (Jan.)

Brooks, Charles F., and others. "Bumpiness" in flying. Effects of winds and other weather conditions on the flight of aeroplanes. p. 126-130. (Feb.) [Abstr. from Aug. 1919, Mo. Weather Rev. pp. 523-532.]

*Washington academy of sciences. Journal. Washington.* v. 10. January 19, 1920.

Hopkins, Andrew D. The bioclimatic law. p. 34-40. [Abstract in later issue of Review.]

*Aérophile. Paris.* 27. année. 1919.Robin. Contrôle et mesure des records d'altitude. p. 290-293.  
(1-15 oct.)

Soreau, Rodolphe. Lois expérimentales des variations de la pression barométrique et du poids spécifique de l'air avec l'altitude. p. 335-342. (1-15 nov.)

*Annales de géographie. Paris.* 29. année. 15 janvier 1920.Angot, Alfred. Régime pluviométrique de la France. 3<sup>me</sup> pte.  
p. 12-35.*Astronomie. Paris.* 33 annéc. Décembre 1919.

Guillaume, C[harles] Ed. Le rayon vert. p. 515-516.

*Ciel et terre. Bruxelles.* 35. année. Novembre 1919.  
Boutquin, A. Météorologie et physique de l'atmosphère. p. 204-212.

Vandevyver. Un singulier cas de choc en retour. p. 216-218.

*France. Académie des sciences. Comptes rendus. Tome 170.* 1920.

Blondel, André. Sur une méthode pour la mesure de la transparence atmosphérique. p. 93-97. (12 jan.) [An adaptation of the Lummer-Brodhun spectrophotometer.]

Besson, Louis. Diminution de la transparence de l'air à Paris. p. 123-125. (12 jan.) [Large decrease during the war.]

Gain, Edmond, &amp; Gain, André. Différences thermiques de l'ubac à l'adret d'une vallée lacustre. p. 191-194. (19 jan.)

Mesnard, Eugène. Les lunaisons et les périodes pluvieuses. p. 242-245. (26 jan.) [Asserts a lunar influence on weather and rainfall.]

*Beiträge zur Geophysik. Leipzig.* 14. Band, 3. Heft. 1916.

Mohorovičić, S. Die reduzierte Laufzeitkurve und die Abhängigkeit der Herdtiefe eines Bebens von der Entfernung des Inflexionspunktes der primären Laufzeitkurve. II. Mitt. p. 187-196.

Mohorovičić, A. Die Bestimmung des Epizentrums eines Nahbebens. p. 199-205.

Meissner, Otto. Neue Laufzeiten für die reflektierten ersten und zweiten Vorläufer. kl. Mitt. p. 49.

*Meteorologische Zeitschrift. Braunschweig.* Band 36. September/Oktobe[r] 1919.

Mazelle, Eduard. Die Windverhältnisse auf der kleinen Insel Pelagosa in der Mitte der Adria in 110m Seehöhe. p. 240-249.

Exner, Felix M. Zur Frage der überadiabatischen Temperaturgradienten. p. 249-253.

Fessler, A. Ein einfaches mechanisches Verfahren zur schnellen Berechnung von Isobarenkarten in beliebig vielen Niveaus. p. 254-257.

Ångström, Anders. Über die Schätzung der Bewölkung. p. 257-262. [Relative to radiation.]

Schmauss, A[ugust]. Randbemerkungen. IV. p. 262-265. [Continuation.]

Paschinger, A. Die stündliche Veränderlichkeit von Windrichtung und Stärke über dem Steinfeld. p. 265-268.

Jensen, Christian. Leonhard Weber. p. 269-271. [Obituary.]

String, Reinhard. Karl Theodor Reyer. p. 271-272. [Obituary.]

Jentzsch-Graefe, Felix. Über Kollodiumpiloten. p. 272-275.

M. Berek: Die Bestimmung der Vertikalkomponente der ausgeglichenen Bewegung in der Atmosphäre nebst einem Beispiel ihrer Bedeutung für die Wetterlage und den zeitlichen Druckverlauf. p. 275-276.

Hann, J[ulius] v. Schätzung der Bewölkung und Bewölkungsmittel. p. 276-277. [Discusses anomalies of observations where complete sky cover is reported and yet clouds are so thin as to permit sunshine recorder to record all day.]

Defant, Albert. Messungen der Sonnenstrahlung zu Arequipa. p. 277-279.

Hann, J[ulius] v. G. Hellmann, Über die nächtliche Abkühlung der Bodennahen Luftschichten. p. 279-281.

Hann, J[ulius] v. G. Hellmann, Über die Windgeschwindigkeit auf dem Gipfel der Schneekoppe. p. 281.

Moench, F. Eine typische Gewittererscheinung. p. 281-282.

Hann, J[ulius] v. Einige vorläufige Ergebnisse der meteorologischen Beobachtungen auf dem grossen und kleinen Feldberg (Taunus-Observatorium) bei Frankfurt am Main. p. 282-285.

Hann, J[ulius] v. Der tägliche Gang der meteorologischen Elemente bei Seewind und Landwind zu Argos (Griechenland). p. 285-287.

Hann J[ulius] v. Über die Theorie der Berg- und Talwinde. p. 287-289.

Hennig, Robert. Wetterkundliche Lehrfilme. p. 292-293.

Wegener, Kurt. Die Prognose der gefühlten Wärme. p. 293-294.

Defant, Albert. Die Böen- und Kurslinien der Zyklonen. p. 294-295. [Refers to Bjerknes' "steering line" and "squall line." See Monthly Weather Review, 47: 90-100.]

*Naturwissenschaften. Berlin.* 7. Jahrgang. 22. August 1919.

Weickmann, L. Wolkenbildung durch ein Flugzeug. p. 625. [Cloud formed in the wake of an aeroplane at Munich.]

*Italy. Consiglio superiore delle acque pubbliche. Annali. Roma.* anno 1919. fasc. 2.

Eredia, Filippo. La misura dell'evaporazione. p. 52-56.